



mathreasoninginventory.com
Marilyn Burns

Mathematical Reasoning Inventory

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Asking Questions

“Listen to how the student explains or is thinking about it..

Instead of...

Listening for the “right” answer.”

Marilyn Burns



Things to ponder during this session...

How can this be used to help support student learning?

○What do you currently use to determine students understanding and misconceptions?

○Why use an interview?

○How can students sharing their thinking in an interview, help them in other ways?



Overview: About the Assessments

- ◊ Online Formative Assessment
- ◊ Free
- ◊ Based on Content from Common Core
 - ◊ Content prior to 6th grade
 - ◊ Used in grades 4th thru 8th



Purpose: Classroom Instruction More Effective

- ◊ Comprised of questions we expect and hope all middle school students to answer successfully
- ◊ Supports classroom communication and Math Talks
- ◊ Easy to learn and use-
 - ◊ Includes tutorials for each piece of the inventory
 - ◊ Many short video examples and actual student interviews



Content

- ◊ Focus on Number and Operation
- ◊ 3 Assessments:
 - ◊ Whole Numbers, Decimals, Fractions
 - ◊ Each assessment has 2 sections:
 - ◊ Interview-, (10-12 questions) about 10 minutes face to face focusing on reasoning strategies and understanding
 - ◊ Written Computation- (4 paper pencil procedures) completed independently



Reports

- MRI produces 4 different reports
 - Individual
 - Group
 - Item Analysis
 - Assessment Review
- Purposes
 - Help inform instruction
 - Identify students who would benefit from Intervention
 - Communicate with parents



Resources

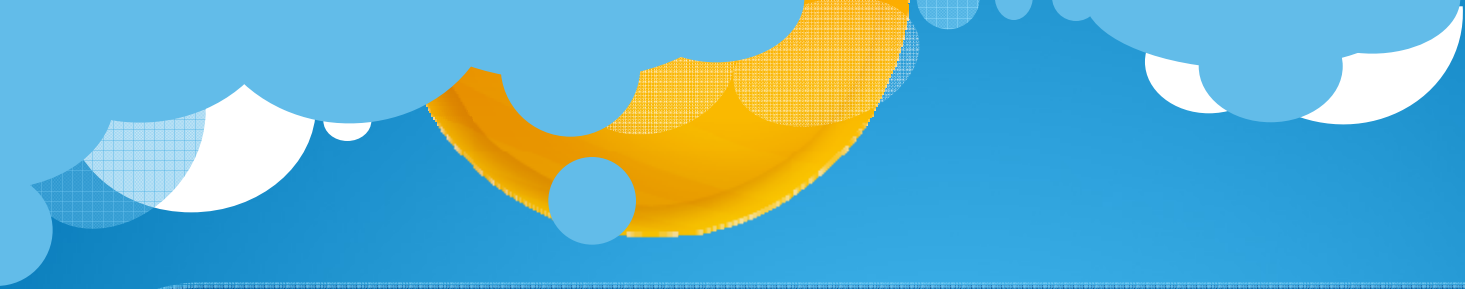
View [this](#) page

- ◊ Assessment PDF files
- ◊ Report PDF files
- ◊ Reasoning Strategies PDF files
- ◊ Other Resources
 - ◊ Video Library
 - ◊ Instructional Resources
 - ◊ [Books, DVDs, Programs, Websites](#)
 - ◊ Common Core Mathematics Standards



MRI Manager Tab

- MRI Manager Page
- Two different types of accounts can be set up:
 - Sign up as an individual Teacher
 - Sign up as a Manager
 - Grade level leaders to collect data for PLC
 - Teach multiple classes
 - District collecting data for a grade level
 - Site data for Intervention leveling
 - Instructional grouping decisions



Registration and Exploration Time

◊ Sign up for this resource now

[Mathreasoninginventory.com](https://mathreasoninginventory.com)

◊ Visit the website and explore on your own

◊ Watch a few interview clips

◊ Set up a classroom roster for yourself

If you find something interesting let the group know so it can be shared with others!



Closing

- ◊ Share your thoughts and ideas about the use of the MRI
- ◊ How might you use this tool at your site?
- ◊ What other ideas might you have for using the MRI at your site or district?

Feedback....